

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318844

Luminaire Tested: **GAN-SA0B-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41831 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

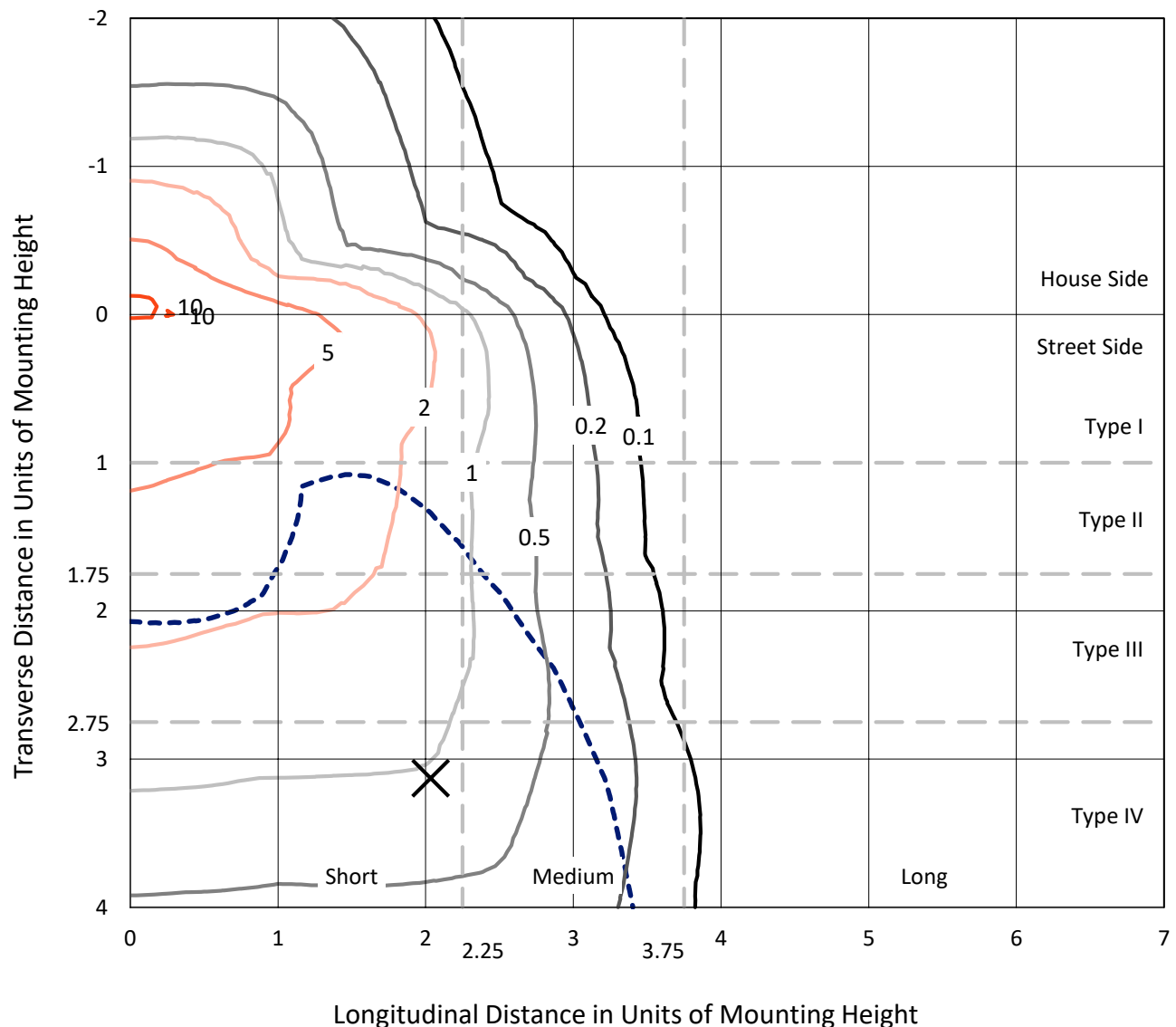


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## Iso-Footcandle Lines of Horizontal Illumination

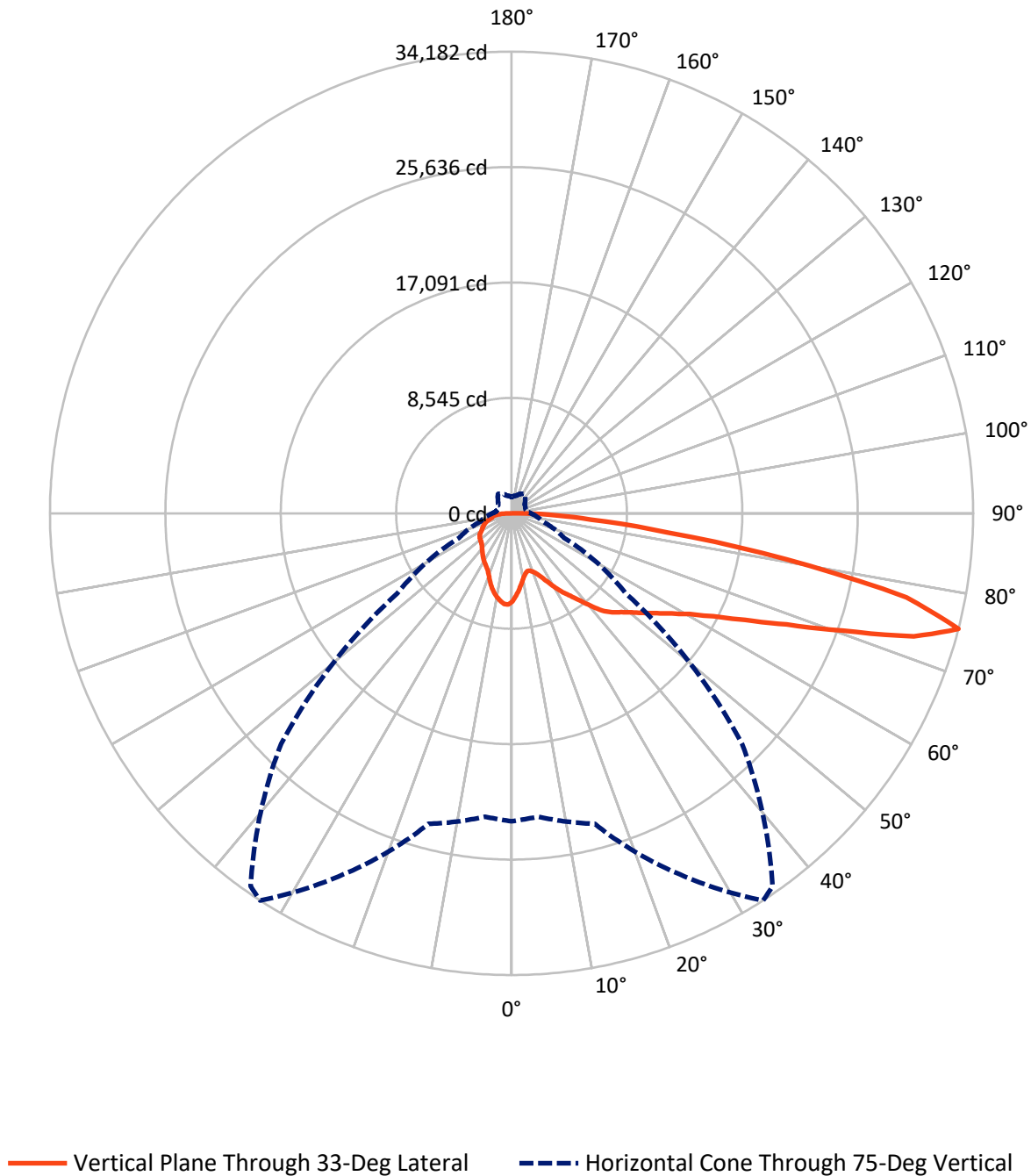
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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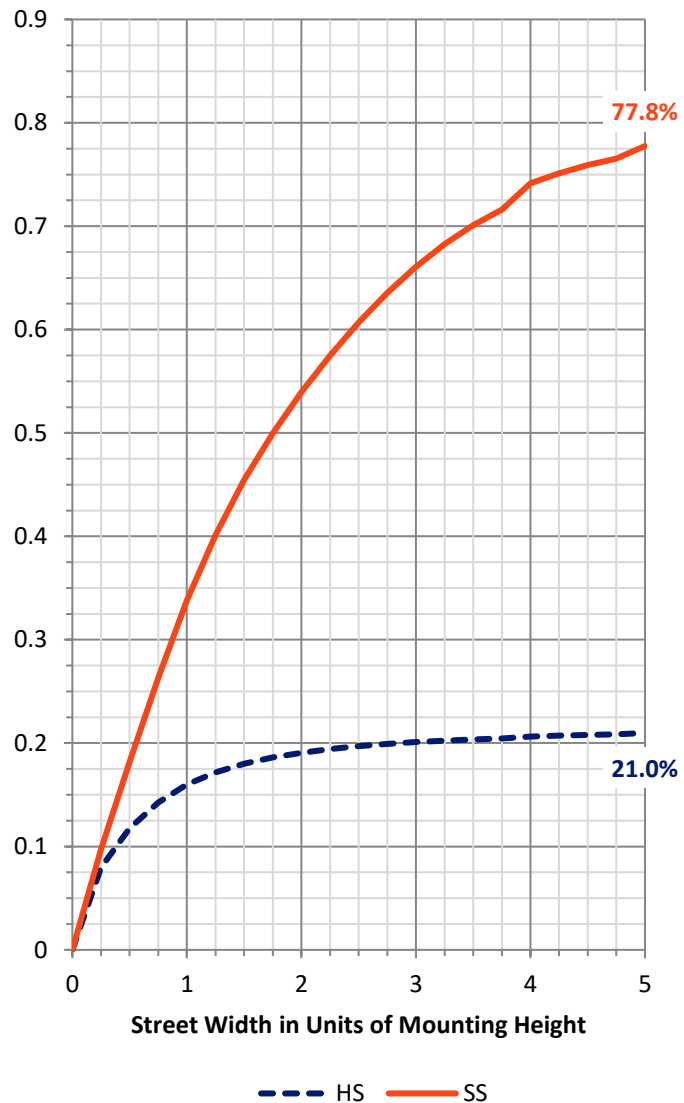
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8982.2   | 0.0    | 8982.2  |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 32848.8  | 0.0    | 32848.8 |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 41831.0  | 0.0    | 41831.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 591.3   | 1.4       |
| 10°-20°   | 1601.5  | 3.8       |
| 20°-30°   | 2615.6  | 6.3       |
| 30°-40°   | 3895.2  | 9.3       |
| 40°-50°   | 5586.7  | 13.4      |
| 50°-60°   | 7669.7  | 18.3      |
| 60°-70°   | 9602.1  | 23.0      |
| 70°-80°   | 8686.6  | 20.8      |
| 80°-90°   | 1582.3  | 3.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 41831.0 | 100.0     |
| 0°-180°   | 41831.0 | 100.0     |

**Coefficient of Utilization**



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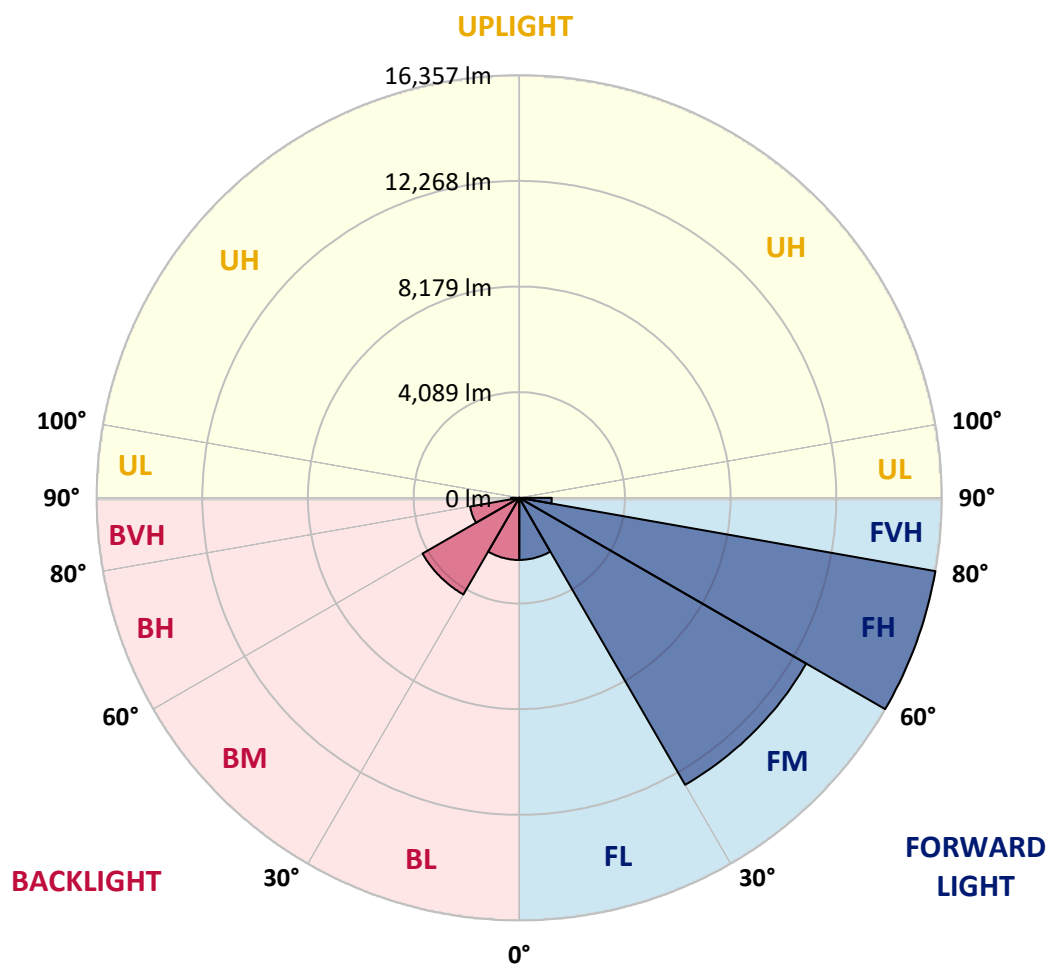
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2402.5  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 12828.7 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 16357.4 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 1260.2  | 3.0       |                         |      | G5      |
| BL   | (0°-30°)    | 2405.9  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4322.9  | 10.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1931.3  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 322.1   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 33°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  | 6538.4  |
| 2.5°  | 6071.7  | 6048.6  | 6091.9  | 6097.7  | 6135.3  | 6149.7  | 6201.7  | 6282.7  | 6349.1  | 6425.7  | 6495.1  |
| 5°    | 5521.2  | 5505.3  | 5566.0  | 5609.3  | 5691.7  | 5726.4  | 5849.2  | 6021.1  | 6174.3  | 6347.7  | 6505.2  |
| 7.5°  | 4998.1  | 4989.4  | 5057.3  | 5155.6  | 5251.0  | 5298.6  | 5511.1  | 5761.0  | 6016.8  | 6297.1  | 6538.4  |
| 10°   | 4557.4  | 4554.5  | 4619.5  | 4716.3  | 4856.5  | 4910.0  | 5184.5  | 5513.9  | 5872.3  | 6258.1  | 6594.8  |
| 12.5° | 4310.3  | 4320.4  | 4350.8  | 4431.7  | 4561.7  | 4615.2  | 4920.1  | 5307.3  | 5750.9  | 6245.1  | 6677.1  |
| 15°   | 4371.0  | 4386.9  | 4334.9  | 4332.0  | 4424.5  | 4466.4  | 4752.5  | 5159.9  | 5664.2  | 6266.8  | 6797.1  |
| 17.5° | 4629.6  | 4632.5  | 4495.3  | 4408.6  | 4464.9  | 4486.6  | 4700.4  | 5076.1  | 5613.6  | 6315.9  | 6947.3  |
| 20°   | 4993.8  | 4986.5  | 4743.8  | 4599.3  | 4629.6  | 4635.4  | 4774.1  | 5077.6  | 5609.3  | 6401.1  | 7142.4  |
| 22.5° | 5476.4  | 5422.9  | 5096.4  | 4899.8  | 4892.6  | 4883.9  | 4963.4  | 5184.5  | 5672.9  | 6539.9  | 7375.0  |
| 25°   | 6106.4  | 6055.8  | 5606.4  | 5337.7  | 5279.9  | 5258.2  | 5269.7  | 5412.8  | 5798.6  | 6688.7  | 7635.1  |
| 27.5° | 6807.2  | 6719.0  | 6285.6  | 5905.5  | 5785.6  | 5755.3  | 5685.9  | 5735.0  | 5935.9  | 6831.7  | 7944.4  |
| 30°   | 7393.8  | 7346.1  | 6967.6  | 6516.7  | 6375.1  | 6331.8  | 6149.7  | 6096.3  | 6133.8  | 7026.8  | 8334.5  |
| 32.5° | 7721.8  | 7690.0  | 7460.3  | 7096.2  | 6964.7  | 6904.0  | 6646.8  | 6539.9  | 6451.7  | 7334.6  | 8863.4  |
| 35°   | 8119.2  | 8099.0  | 7960.3  | 7695.8  | 7500.8  | 7437.2  | 7237.8  | 7126.5  | 6899.7  | 7758.0  | 9546.8  |
| 37.5° | 8624.9  | 8603.3  | 8606.1  | 8392.3  | 8159.7  | 8100.4  | 7968.9  | 7851.9  | 7480.5  | 8314.3  | 10289.5 |
| 40°   | 9197.1  | 9155.2  | 9139.3  | 9129.2  | 8981.8  | 8948.6  | 8879.2  | 8720.3  | 8208.8  | 8978.9  | 11022.1 |
| 42.5° | 10058.3 | 9909.5  | 9591.6  | 9711.5  | 9857.5  | 9840.1  | 9896.5  | 9668.2  | 9018.0  | 9765.0  | 11737.4 |
| 45°   | 10889.2 | 10645.0 | 10095.9 | 10121.9 | 10441.2 | 10538.1 | 10960.0 | 10798.1 | 9895.0  | 10626.2 | 12477.2 |
| 47.5° | 11267.8 | 11082.8 | 10616.1 | 10617.5 | 10934.0 | 11134.8 | 12059.6 | 11944.0 | 10816.9 | 11604.4 | 13380.3 |
| 50°   | 11691.1 | 11506.2 | 11087.1 | 11244.6 | 11520.6 | 11734.5 | 13121.6 | 13062.4 | 11694.0 | 12675.1 | 14462.6 |
| 52.5° | 12153.5 | 11840.0 | 11574.1 | 11855.9 | 12243.1 | 12491.6 | 14185.1 | 14023.3 | 12498.9 | 13753.1 | 15706.7 |
| 55°   | 12159.3 | 12074.0 | 12276.3 | 12483.0 | 13062.4 | 13367.3 | 15299.2 | 14871.5 | 13154.9 | 14812.2 | 16719.6 |
| 57.5° | 12851.4 | 12712.7 | 13141.9 | 13237.2 | 13994.4 | 14338.3 | 16407.5 | 15609.8 | 13822.4 | 15624.3 | 17265.8 |
| 60°   | 13767.5 | 13649.0 | 14000.2 | 14251.6 | 15147.5 | 15607.0 | 17590.9 | 16368.4 | 14347.0 | 16237.0 | 17239.8 |
| 62.5° | 15349.8 | 15215.4 | 15211.0 | 15563.6 | 16770.1 | 17304.8 | 18918.8 | 17112.6 | 14555.0 | 16358.3 | 16504.3 |
| 65°   | 17666.0 | 17452.2 | 17049.0 | 17216.6 | 19011.3 | 19544.5 | 20402.8 | 17651.6 | 14280.5 | 15708.1 | 14609.9 |
| 67.5° | 19920.1 | 19912.9 | 19417.3 | 19761.2 | 21970.5 | 22398.2 | 22093.4 | 17705.0 | 13423.6 | 13443.9 | 11249.0 |
| 70°   | 22167.0 | 22195.9 | 22112.1 | 23308.6 | 25968.7 | 26413.8 | 23893.8 | 16986.9 | 11497.5 | 9708.7  | 6739.3  |
| 72.5° | 23947.2 | 23940.0 | 24361.9 | 27446.9 | 31157.6 | 31057.9 | 25411.0 | 14810.8 | 8255.0  | 5240.9  | 3220.8  |
| 75°   | 22794.2 | 22542.7 | 23799.8 | 29495.9 | 34181.8 | 33694.9 | 24120.6 | 10331.4 | 4284.3  | 2385.6  | 1733.9  |
| 77.5° | 14867.1 | 15105.6 | 16950.8 | 24366.3 | 29899.0 | 29306.6 | 17696.4 | 4820.4  | 2018.6  | 1564.9  | 1257.1  |
| 80°   | 5383.9  | 5635.3  | 7937.1  | 13802.2 | 20599.3 | 20502.5 | 8714.5  | 1981.0  | 1365.5  | 1182.0  | 916.1   |
| 82.5° | 1852.4  | 1944.9  | 3131.2  | 6129.5  | 11630.4 | 12063.9 | 3278.6  | 1125.6  | 992.7   | 838.1   | 627.1   |
| 85°   | 726.8   | 832.3   | 1432.0  | 2949.2  | 5866.5  | 5909.9  | 1327.9  | 673.3   | 690.7   | 549.1   | 343.9   |
| 87.5° | 276.0   | 335.2   | 684.9   | 1369.8  | 2678.9  | 2460.8  | 475.4   | 320.8   | 393.0   | 326.6   | 163.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6538.4  | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 | 6538.4 |
| 2.5°  | 6548.5  | 6578.9 | 6642.5 | 6685.8 | 6732.0 | 6745.0 | 6750.8 | 6762.4 | 6773.9 | 6769.6 | 6771.1 |
| 5°    | 6589.0  | 6648.2 | 6750.8 | 6794.2 | 6814.4 | 6791.3 | 6746.5 | 6710.4 | 6684.4 | 6669.9 | 6665.6 |
| 7.5°  | 6655.5  | 6739.3 | 6849.1 | 6841.9 | 6795.6 | 6693.0 | 6577.4 | 6490.7 | 6418.5 | 6392.5 | 6378.0 |
| 10°   | 6743.6  | 6841.9 | 6918.4 | 6836.1 | 6701.7 | 6524.0 | 6350.6 | 6216.2 | 6107.8 | 6065.9 | 6058.7 |
| 12.5° | 6856.3  | 6956.0 | 6970.5 | 6795.6 | 6573.1 | 6330.3 | 6094.8 | 5917.1 | 5755.3 | 5703.2 | 5691.7 |
| 15°   | 7002.3  | 7096.2 | 7006.6 | 6724.8 | 6414.2 | 6087.6 | 5782.7 | 5541.4 | 5370.9 | 5307.3 | 5284.2 |
| 17.5° | 7155.4  | 7245.0 | 7013.8 | 6607.8 | 6206.1 | 5800.0 | 5417.1 | 5170.0 | 4975.0 | 4901.3 | 4892.6 |
| 20°   | 7338.9  | 7379.4 | 6983.5 | 6440.2 | 5920.0 | 5427.2 | 5024.1 | 4791.5 | 4687.4 | 4635.4 | 4629.6 |
| 22.5° | 7565.8  | 7522.4 | 6914.1 | 6213.3 | 5557.3 | 4996.7 | 4668.6 | 4560.3 | 4534.3 | 4522.7 | 4527.0 |
| 25°   | 7805.6  | 7672.7 | 6811.5 | 5917.1 | 5099.2 | 4566.1 | 4408.6 | 4438.9 | 4473.6 | 4469.2 | 4469.2 |
| 27.5° | 8070.1  | 7825.9 | 6654.0 | 5524.1 | 4592.1 | 4213.5 | 4232.3 | 4343.5 | 4395.6 | 4394.1 | 4392.7 |
| 30°   | 8409.6  | 7999.3 | 6453.2 | 5051.6 | 4118.1 | 3965.0 | 4079.1 | 4214.9 | 4285.7 | 4282.8 | 4284.3 |
| 32.5° | 8827.2  | 8190.0 | 6180.1 | 4524.2 | 3775.7 | 3781.4 | 3912.9 | 4047.3 | 4129.7 | 4122.5 | 4123.9 |
| 35°   | 9315.6  | 8403.9 | 5810.2 | 4004.0 | 3548.8 | 3635.5 | 3739.5 | 3833.5 | 3911.5 | 3901.4 | 3891.3 |
| 37.5° | 9847.4  | 8613.4 | 5318.9 | 3538.7 | 3363.9 | 3499.7 | 3586.4 | 3602.3 | 3638.4 | 3612.4 | 3593.6 |
| 40°   | 10353.1 | 8773.8 | 4686.0 | 3157.2 | 3177.5 | 3384.1 | 3440.4 | 3376.9 | 3311.8 | 3303.2 | 3277.2 |
| 42.5° | 10793.8 | 8827.2 | 4045.9 | 2852.3 | 2980.9 | 3262.7 | 3297.4 | 3164.5 | 3047.4 | 2992.5 | 2969.4 |
| 45°   | 11259.1 | 8846.0 | 3449.1 | 2596.6 | 2791.7 | 3154.3 | 3191.9 | 3014.2 | 2849.5 | 2731.0 | 2692.0 |
| 47.5° | 11867.4 | 8981.8 | 2985.3 | 2407.3 | 2647.2 | 3082.1 | 3135.6 | 2894.2 | 2680.4 | 2511.3 | 2475.2 |
| 50°   | 12663.6 | 9250.6 | 2608.1 | 2262.8 | 2553.2 | 3034.4 | 3095.1 | 2777.2 | 2541.7 | 2337.9 | 2301.8 |
| 52.5° | 13547.9 | 9497.7 | 2303.3 | 2145.8 | 2462.2 | 2950.6 | 3043.1 | 2693.4 | 2411.6 | 2177.5 | 2138.5 |
| 55°   | 14166.3 | 9308.4 | 2057.6 | 2024.4 | 2343.7 | 2830.7 | 2970.8 | 2622.6 | 2225.2 | 2021.5 | 1986.8 |
| 57.5° | 14284.8 | 8661.1 | 1871.2 | 1898.7 | 2200.7 | 2680.4 | 2859.6 | 2465.1 | 2124.1 | 1953.6 | 1917.5 |
| 60°   | 13961.2 | 7759.4 | 1732.5 | 1783.1 | 2047.5 | 2491.1 | 2651.5 | 2353.8 | 2027.3 | 1881.3 | 1851.0 |
| 62.5° | 13147.6 | 6836.1 | 1629.9 | 1679.0 | 1904.5 | 2298.9 | 2521.4 | 2236.8 | 1929.0 | 1799.0 | 1768.6 |
| 65°   | 11504.7 | 5739.4 | 1531.7 | 1586.6 | 1771.5 | 2132.8 | 2404.4 | 2128.4 | 1832.2 | 1732.5 | 1703.6 |
| 67.5° | 8684.2  | 4298.7 | 1439.2 | 1488.3 | 1653.0 | 1988.3 | 2277.2 | 2021.5 | 1738.3 | 1674.7 | 1640.0 |
| 70°   | 5113.7  | 2692.0 | 1333.7 | 1385.7 | 1528.8 | 1838.0 | 2141.4 | 1904.5 | 1621.2 | 1592.3 | 1547.5 |
| 72.5° | 2379.8  | 1619.8 | 1213.8 | 1264.3 | 1372.7 | 1637.1 | 1966.6 | 1751.3 | 1482.5 | 1418.9 | 1358.3 |
| 75°   | 1420.4  | 1184.9 | 1072.2 | 1116.9 | 1193.5 | 1423.3 | 1747.0 | 1595.2 | 1351.0 | 1267.2 | 1203.6 |
| 77.5° | 1062.0  | 906.0  | 916.1  | 963.8  | 1025.9 | 1245.6 | 1547.5 | 1472.4 | 1249.9 | 1184.9 | 1141.5 |
| 80°   | 764.4   | 687.8  | 747.0  | 799.1  | 864.1  | 1132.8 | 1482.5 | 1361.1 | 1130.0 | 1043.3 | 1002.8 |
| 82.5° | 510.1   | 494.2  | 562.1  | 615.6  | 679.1  | 991.2  | 1392.9 | 1192.1 | 965.2  | 855.4  | 765.8  |
| 85°   | 281.8   | 297.7  | 378.6  | 401.7  | 456.6  | 697.9  | 1141.5 | 958.0  | 726.8  | 585.2  | 559.2  |
| 87.5° | 117.0   | 137.3  | 203.7  | 196.5  | 242.8  | 416.1  | 751.4  | 578.0  | 462.4  | 345.3  | 268.8  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)